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(21) International Application Number: PCT/US97/12111 (22) International Filing Date: 14 July 1997 (14.07.97) (30) Priority Data: 08/691,769 2 August 1996 (02.08.96) US (71) Applicant: EXXON RESEARCH AND ENGINEERING COMPANY [US/US]; 180 Park Avenue, P.O. Box 390, Florham Park, NJ 07932-0390 (US). (72) Inventors: WITTENBRINK, Robert, Jay; 836 Shadyglen Drive, Baton Rouge, LA 70816 (US). BAUMAN, Richard, Frank; 8031 Oak Hollow Drive, Baton Rouge, LA 70810 (US). RYAN, Daniel, Francis; 6211 Gabriel Oaks Drive, Baton Rouge, LA 70820 (US). BERLOWITZ, Paul, Joseph; 939 Jamestown Road, East Windsor, NJ 08520 (US). (74) Agents: SIMON, Jay et al.; Exxon Research and Engineering Company, P.O. Box 390, Florham Park, NJ 07932-0390 (US).		(81) Designated States: AU, BR, CA, CN, JP, KR, MX, NO, SG, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: SYNTHETIC DIESEL FUEL WITH REDUCED PARTICULATE MATTER EMISSIONS (57) Abstract A diesel engine fuel is produced from Fischer-Tropsch wax by separating a light density fraction, e.g., C ₅ -C ₁₅ , preferably C ₇ -C ₁₄ cut having at least 80+ wt.% n-paraffins, no more than 5000 ppm alcohols as oxygen, less than 10 wt.% olefins, twice aromatics and very low sulfur and nitrogen.		